

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P184469

Luminaire Tested: **66EN-LD2-34-UNV-L850-CD1-U**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P184469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34466)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: 66EN-LD2-34-UNV-L850-CD1-U
Description: METALUX ENCOUNTER 600X600 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3623.2 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

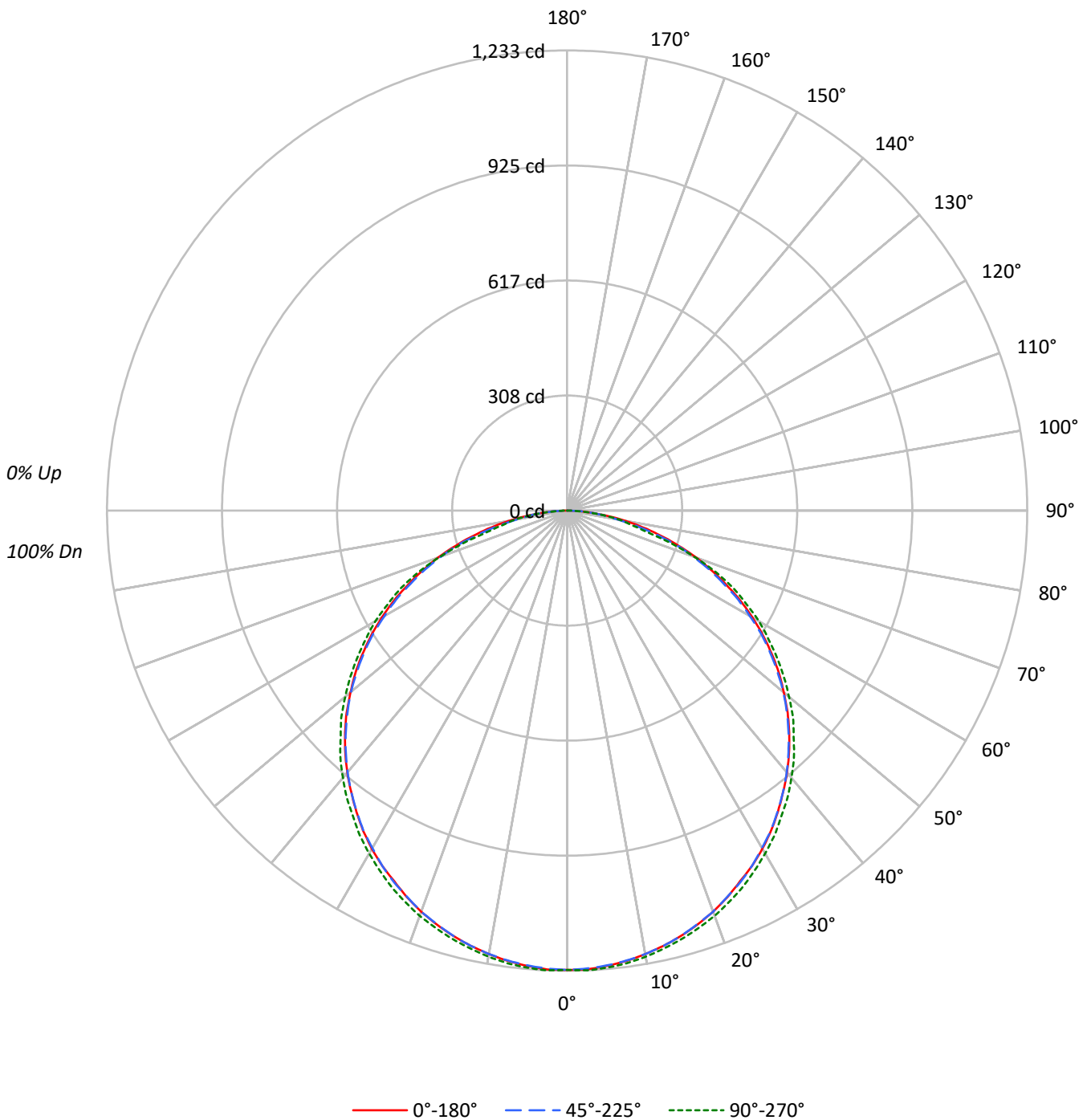
Input Watts (W): 28.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3312	3312	3312
5°	3308	3305	3321
10°	3297	3297	3317
15°	3287	3287	3310
20°	3274	3274	3309
25°	3255	3262	3305
30°	3251	3244	3297
35°	3234	3231	3286
40°	3220	3216	3284
45°	3202	3193	3267
50°	3172	3167	3249
55°	3140	3118	3220
60°	3087	3041	3198
65°	2996	2942	3127
70°	2891	2824	2853
75°	2698	2572	2282
80°	2424	2104	2255
85°	1797	1834	1871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	3.2
10°-20°	333.5	9.2
20°-30°	507.7	14.0
30°-40°	618.2	17.1
40°-50°	651.4	18.0
50°-60°	599.1	16.5
60°-70°	465.4	12.8
70°-80°	260.8	7.2
80°-90°	70.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	957.7	26.4
0°-40°	1575.9	43.5
0°-60°	2826.3	78.0
0°-90°	3623.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3623.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1225	1224	1224	1227	1230	116
15°	1180	1179	1180	1185	1188	333
25°	1096	1096	1099	1105	1113	506
35°	985	982	983	992	1000	616
45°	842	840	839	849	858	649
55°	669	667	664	674	686	598
65°	470	467	462	475	491	466
75°	260	256	247	227	220	275
85°	58	58	59	59	61	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.7	1230.7	1230.7	1230.7	1230.7
2.5°	1230.7	1229.5	1228.3	1230.7	1233.2
5°	1224.7	1223.5	1223.5	1227.1	1229.5
7.5°	1217.4	1216.2	1216.2	1219.8	1223.5
10°	1206.5	1206.5	1206.5	1210.1	1213.8
12.5°	1194.4	1193.2	1194.4	1198.0	1201.6
15°	1179.8	1178.6	1179.8	1184.7	1188.3
17.5°	1162.8	1160.4	1161.6	1167.7	1172.5
20°	1143.4	1142.2	1143.4	1149.5	1155.6
22.5°	1121.6	1120.4	1120.4	1127.7	1135.0
25°	1096.1	1096.1	1098.6	1104.6	1113.1
27.5°	1073.1	1070.7	1073.1	1080.4	1087.7
30°	1046.4	1044.0	1044.0	1053.7	1061.0
32.5°	1017.3	1013.7	1016.1	1023.4	1033.1
35°	984.6	982.2	983.4	991.9	1000.4
37.5°	950.6	949.4	950.6	959.1	970.0
40°	916.7	914.3	915.5	925.2	934.9
42.5°	880.3	879.1	877.9	887.6	899.7
45°	841.5	840.3	839.1	848.8	858.5
47.5°	801.5	799.1	797.9	807.6	820.9
50°	757.8	757.8	756.6	763.9	776.0
52.5°	715.4	713.0	710.6	719.0	732.4
55°	669.3	666.9	664.5	674.2	686.3
57.5°	622.0	619.6	617.2	624.5	639.0
60°	573.5	571.1	565.1	577.2	594.2
62.5°	523.8	519.0	516.5	527.5	540.8
65°	470.5	466.8	462.0	475.3	491.1
67.5°	419.5	413.5	411.1	420.8	431.7
70°	367.4	362.6	358.9	360.1	362.6
72.5°	312.8	310.4	306.8	295.9	293.4
75°	259.5	255.8	247.4	226.7	219.5
77.5°	208.6	206.1	189.2	172.2	174.6
80°	156.4	154.0	135.8	139.4	145.5
82.5°	109.1	103.1	100.6	99.4	103.1
85°	58.2	58.2	59.4	59.4	60.6
87.5°	24.3	24.3	26.7	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)